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PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)	Customer No. 37003
ARROWSMITH et al.)	Confirmation No.: 9709
Application N°: 10/561,356)	
Int'l Appl. No.: PCT/GB2004/002614)	
Priority Appl. No.: GB0315790.6)	Group Art Unit: n/a
Filed: December 19, 2005)	
Int'l. Filing Date: 17 June 2004)	
Priority Filing Date: 05 July 2003)	Examiner: n/a
Title: PASSIVE SEISMIC EVENT DETECTION)	Docket N°: 57.0531 US PCT

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendments, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on July 20, 2006.


James Conner

July 20, 2006
Date

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendments
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Sir:

In accordance with 37 C.F.R. §1.56, 1.97 and 1.98, the Applicants wish to bring the reference materials listed in the attached Form PTO-1449 to the attention of the U. S. Patent and Trademark Office. Copies of the references are provided for the Examiner's convenience.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, the Applicant understands that the Examiner will make an independent evaluation of the cited publications.

It is respectfully requested that these references be considered by the Examiner and formally made of record in this case.

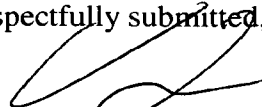
ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /SH/

Application No.: 10/561,356
Paper Date: July 20, 2006

Atty. Docket No. 57.0531 US PCT
Page 2

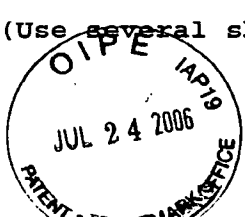
This information disclosure statement is being filed before receipt of the first office action. Therefore, applicants believe that no fees are due. However, in the event that the first office action has been mailed prior to the filing of this information disclosure statement, the Commissioner is authorized to charge or credit any deficiency/overpayment to Deposit Account No. 19-0615.

Respectfully submitted,



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Date: July 20, 2006

FORM PTO-1449 (Modified)	ATTY. DOCKET NO.	SERIAL NO.
LIST OF INFORMATION PROVIDED BY APPLICANT (Use several sheets if necessary)	57.0531 US PCT	10/561 356
	APPLICANTS Arrowsmith et al	
	FILING DATE 12/19/05	GROUP

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Patentee
/SH/	AA	6,598,001	07/22/03	Deflandre
/SH/	AB	2001/0047245	04/06/01	Cheng et al
/SH/	AC	6,018,498	01/25/00	Neff et al
	AD			

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Translation Yes No
/SH/	AE	1 074 858 A1	07/17/00	EP	Yes - Abstract
/SH/	AF	98/09182 A1	03/05/98	WO	
/SH/	AG	97/39367 A1	10/23/97	WO	
	AH	1 074 858 B1	7/17/00	EP	Yes - Abstract

OTHER INFORMATION PROVIDED (AUTHOR, TITLE, DATE, PLACE OF PUBLICATION, PERTINENT PAGES, ETC.)

/SH/	AI	Poupinet et al Monitoring Velocity Variations in the Crust using Earthquake Doublets: An Application to the Calaveras Fault, California Journal of Geophysical Research, Vol 89, July 1984, pages 5719-5731
/SH/	AJ	Moriya et al Precise source location of AE Doublets by Spectral Matrix Analysis of the Triaxial Hodogram Geophysics, Vol 59, January 1994, pages 36-45.
/SH/	AK	Waldhauser et al A Double-Difference Earthquake Location Algorithm: Method and Application by the Northern Hayward Fault, California Bulletin of the Seismological Society of America, Vol. 90, December 2000, pages 1353-1368
/SH/	AL	Vance et al Improved Determination of Microseismic Source Location using a Simplex Technique IEEE Transactions on Industry Applications, Vol. 24, July/August 1988, pages 666-671

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /SH/

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EXAMINER /Scott Hughes/ (06/19/2008)		DATE CONSIDERED 06/19/2008

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

1. The attached cited information should not be construed as an admission that any of the above items are prior art to the subject invention.
2. This is not a representation that a search has been made.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /SH/